Datex II
in the context of harmonised ITS Deployment

Policy context – view of the EC

European Commission – DG MOVE

Outline

- Policy context
  - Transport White Paper: a vision for the transport system of 2050
  - EU policy framework for the deployment of Intelligent Transport Systems

- The importance of DATEX II
Goals of European transport policy

- **Paramount goal:**
  A transport system that
  - underpins EU *economic progress*,
  - enhances *competitiveness* and
  - offers *high quality mobility* services while using resources more efficiently

- **In practice,** transport has to:
  - use less energy
  - use cleaner energy
  - better exploit a modern network
White Paper 2011 on Transport: a roadmap to a Single European Transport System

…that is

- Sustainable
- Integrated (all modes)
- User-friendly
- Technology led (ITS)

and that enhances

- Economic progress
- Competitive growth (Single Market)
- Efficient use of resources
- Use of cleaner fuels & reduction of oil dependency
Technology led: ICT in all transport modes

- SESAR
- River Information Services
- SafeSeaNet
- Vessel Traffic Monitoring & Information Systems
- ERTMS / TAP-TSI
- ITS-for-Roads
- Galileo/EGNOS
White Paper 2011 on Transport
a vision for the transport system of 2050

Establishing
- A global level-playing field for long-distance travel and intercontinental freight
- An efficient core network for multimodal intercity travel and transport, well connected to local systems
- Clean urban transport and commuting

Focus on a single, integrated & intelligent Infrastructure

10 goals formulated related to:
- develop & deploy new & sustainable propulsion systems
- optimising performance of multimodal logistic chains
- increasing the efficiency of transport & infrastructure use

40 actions clustered around 4 “I”-s:
## How to do it: the 4 “i”s and 40 actions

<table>
<thead>
<tr>
<th>Internal market:</th>
<th>Create a genuine Single European Transport Area by eliminating all residual barriers between modes and national systems.</th>
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<tbody>
<tr>
<td>Innovation:</td>
<td>EU research needs to address the full cycle of research, innovation and deployment in an integrated way.</td>
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<tr>
<td>Infrastructure:</td>
<td>EU transport infrastructure policy needs a common vision and sufficient resources. The costs of transport should be reflected in its price in an undistorted way.</td>
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<tr>
<td>International:</td>
<td>Opening up third country markets in transport services, products and investments continues to have high priority.</td>
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</table>
Internal market

- **Single European Railway Area**
- Complete modernisation of Europe’s air traffic control system by 2020 (**SESAR**)
- Ensure the full interoperability between ICT systems in the waterborne sectors, guarantee the monitoring of vessels and freight (**Blue Belt**)
- **e-Freight** initiative for paperless and intelligent logistics
- Towards a ‘**zero-vision**’ on road safety
- Access to **real time travel and traffic information** to facilitate multi-modal travel planning and integrated ticketing
- Further consolidation of **passengers’ rights** legislation
Innovation

- **Technology Roadmap**: in the areas of clean, safe and silent vehicles for all different modes of transport, *integrated transport management and information systems*, *Intelligent infrastructure* (both land and space-based)

- **An innovation and deployment strategy**: measures for the deployment of smart mobility systems, definition and deployment of an *open standard electronic platform for vehicle on-board units*, European Integrated Multimodal Information and Management Plan

- **Regulatory framework for innovative transport**: *Interface standards* for infrastructure-to-infrastructure, vehicle-to-infrastructure, and vehicle-to-vehicle communications

- **Eco-driving and speed limits**
Infrastructure

- **Core infrastructure – a European Mobility Network**: Deploy large scale *intelligent and interoperable technologies* (SESAR, ERTMS, RIS, ITS, etc.) to optimise the capacity and the use of infrastructure.

- Single framework for **coherent funding**: TEN-T, cohesion and structural funds, including the deployment of new technologies (ITS).

- Single management structures for **rail freight corridors**.

- Guidelines for the **application of infrastructure costs to passenger cars** (2012). In a second stage, a framework for the internalisation of costs to all road vehicles.
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• The importance of DATEX II
Policy framework for the deployment of ITS in Europe


- **Directive 2010/40/EU**: Framework for the Coordinated and Effective Deployment and Use of Intelligent Transport Systems

> Road transport and interfaces with other modes
  
  - to coordinate and accelerate deployment of ITS
  - to tackle bottlenecks for deployment
  - to make road transport more sustainable
Directive 2010/40/EU

Framework for the Coordinated and Effective Deployment and Use of Intelligent Transport Systems

Objectives:

- Establishing a framework for the coordinated and effective deployment and use of ITS
- Setting common priorities
- Development of specifications and standards focused on interoperability and continuity
  » functional, technical, organisational & service provision-related
Principles for Deployment

- Interoperability
- Intermodality
- Continuity of services
- Quality of time and position
- Respect for existing infrastructure
- Maturity
- Cost-efficiency
- Proportionality
- Effectiveness
- Backward compatibility
- Equality of access
- Coherence with EU policies
European ITS Committee

- established in Dec 2010
- Chair: Commission

Member States

- adoption of work programme
- reporting guidelines
- standardisation mandates
- non-binding measures
- consultation for specifications
- information exchange

European ITS Advisory Group

- appointed in Jan 2012
- Chair: Commission

High Level Representatives

- Service providers
- User associations
- Transport operators
- Industry
- Social partners
- Profess. organisations
- Local authorities
- Other relevant forums

- advice on business and technical aspects
- stakeholder interests
EU-wide Multi-Modal Travel Information

EU-wide Real-Time Traffic information

Free safety-related minimum Traffic Info

Interoperable EU-wide eCall

Information & Reservation systems for Truck Parking

SOURCE: European Commission
Timeline

- **Aug 27**: Directive in force
- **Feb**: Work Programme
- **Aug**: National Reports
- **Feb**: Transposition
- **Aug**: First specs to be ready
- **Aug**: National Reports
- **Aug**: COM Report

- **2010**: Multi-modal travel information
- **2011**: eCall, Free min traffic information, Truck parking information
- **2012**: Real-time information, Truck parking reservation
- **2013**: COM report
- **2014**: COM Report on Delegation
- **2015**: National Reports
- **2016**: COM Report
- **2017**: National Reports, Delegation ends
ITS Directive/ Annex 1: Priority Areas and Actions

- **Priority Areas:**
  - I. Optimal use of road, traffic and travel data
  - II. Continuity of traffic & freight management ITS services
  - III. ITS road safety and security applications
  - IV. Linking the vehicle with the transport infrastructure

- **Key words:**
  - Access & availability of data
  - (Electronic) *Data Exchange*
  - Standardised interfaces
The importance of DATEX II: a key enabler!

- Key outcome of effective cooperation (within EasyWay)
- Road Authorities in the driving seat
- Increasing interaction with private actors
- Standardisation achieved (first package > CEN TS)
- Further work ongoing / ‘parts 4 & 5’ plus new extensions
- Cooperation with TISA
  - to bring the data/services into the vehicle
- Growing Community & operational use

> Cooperation … going beyond the bits & bites!

DATEX II = a key driver for rolling out harmonised ITS
DATEX II = a key enabler – Challenges?

- Maintain the *momentum*
  - Further standardisation …in line with operational requirements
  - Access to public data to boost operational value & use
  - Alignment to policy framework

- Establish a robust, future-proof *framework*
  - Expertise & *buy-in* from stakeholders
  - Exploration of business opportunities
  - Sharing of knowledge - *User support* (Forum)

- Ensure *continuity*
  - Organisation & ‘hosting’
  - Funding independent from (EC) project working
  - Promotion of CEN standards
DATEX: making co-operation come true…

- The European Commission acknowledges & appreciates the work of the DATEX Community, and notably the contribution of EasyWay/ ESG5

- We wish you all a most successfull conference!
More information

- Directorate-General for Mobility and Transport
  http://ec.europa.eu/transport/index_en.htm

- ITS Action Plan and Directive
  http://ec.europa.eu/transport/its/road/action_plan_en.htm

- White Paper 2011

Thank you for your attention!